

> Denotes revised material in this JPM

JOB PERFORMANCE MEASURE

TASK CODE: CFO-111

TASK: Operate a Beta Laboratory Counter

NAME: _____ **BADGE:** _____

REFERENCES: Only references for knowledge items are listed here. The trainee is expected to identify the correct references for Practical items.

- >1. WP 12-HP1300, Radiological Monitoring Equipment
 - >2. WP 12-HP1100, Radiological Surveys
 - >3. WP 12-HP3500, Airborne Radioactivity
 - >4. Eberline BC-4 Beta Counter Technical Manual
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TERMINAL OBJECTIVE:

- >Given an air sample or a smear that needs to be counted, perform pre-operational checks and operate the beta laboratory counter per WP 12-HP1100, WP 12-HP1300, and WP 12-HP3500.
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CONSEQUENCES OF INADEQUATE PERFORMANCE:

Improper survey results

HAZARDS (PERSONNEL/EQUIPMENT STATUS):

- >Personnel contamination
 - >Uncontrolled release of radioactive material
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PRE-REQUISITE TRAINING/ TASK COMPLETION:

- 1. CL 1.00 Series
 - >2. CL 2.03, Counting Statistics
 - >3. CL 2.19, Counting Equipment
 - 4. CFO-156, Control Radioactive Sources
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TOOLS/EQUIPMENT (MATERIALS REQUIRED):

- 1. Eberline BC-4 Bench Counter
- 2. Sr/Y90 source

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Instructions to Trainee: You shall acquire the necessary references and equipment, and complete all required documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step performance shall be completed with 100% accuracy.

Instructions to JPM Evaluator: The trainee is to perform the terminal objective, without assistance, on the job site. Provide clarification of requirements if requested by the trainee. You are encouraged to ask relevant questions to verify trainee understanding. If the trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's qualification card.

>On performance items, if there is more than one means available to accomplish the step, circle the method used. Refer to the RCT-01 Qualification Standard for preference of use.

KNOWLEDGE REQUIREMENTS:

Reference	Knowledge Requirement	Pass/Fail
>4	Describe the basic operation of a beta laboratory counter (BC-4).	
1	State your actions if the beta laboratory counter fails the operability check.	
1, 2, 3	State the types of samples that can be counted using a beta laboratory counter.	

PERFORMANCE REQUIREMENTS:

>Method	Performance Requirement	Pass/Fail
P	Verify the current calibration status of the instrument. #	
P	Perform a physical inspection of the instrument. #	
P	Perform a source check of the instrument. #	
P	Count an air sample using the beta laboratory counter. #	
>P	Count a swipe using the beta laboratory counter. #	
P	Complete the required documentation. #	

indicates a critical step

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FINAL EVALUATION:

PASS

FAIL

COMMENTS:

EVALUATOR SIGNATURE:

_____ **DATE:** _____

TRAINEE SIGNATURE:

_____ **DATE:** _____

MANAGER SIGNATURE:

_____ **DATE:** _____